



**FORTINET**



FortiAP C220C, C225C,  
C220SC, C225SC

QuickStart Guide



June 22, 2017

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本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

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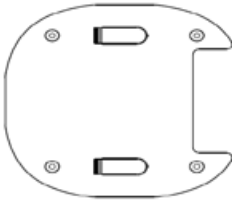
# Box Includes



FortiAP device



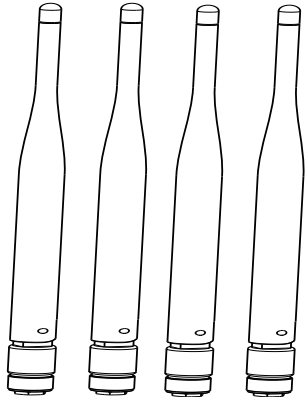
QuickStart Guide



Mounting Bracket



Wall/Ceiling Mounting Hardware Kit



External Antennas  
(Models C225C and C225SC)

# Before You Begin

Write down details typically provided by your network administrator or ISP.

## DHCP

It is normal to not require a hostname, but your ISP might require it.

Hostname

## Static IP address

IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS



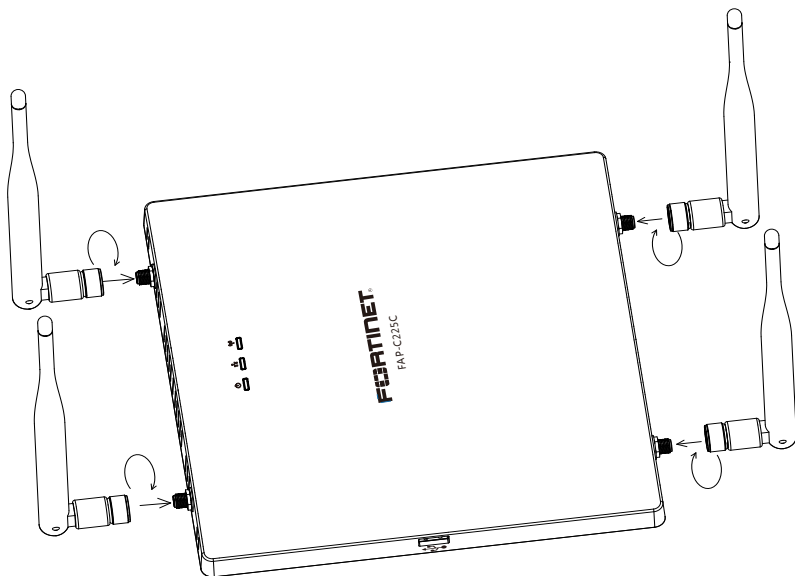
## QuickStart Guide Video

<http://video.fortinet.com/video/38/fortigate-and-fortiwifi-quick-start-guide-5-0>

# 1 Installation

The unit can be mounted on a desk or on a wall or ceiling using the provided wall/ceiling mounting hardware kit.

FortiAP C225C and FortiAP C225SC have external antennas. Attach the antennas to the antenna mounts before you install the unit to a wall or ceiling.

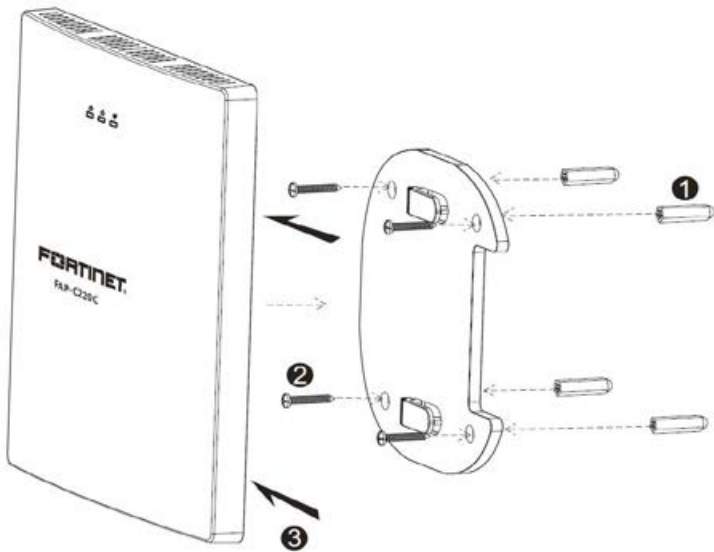


**Note:** FortiAP C220C and FortiAP C220SC have internal antennas. This step is not applicable when installing those models.

## To attach the unit to a wall

Before you begin: Select an appropriate location. Mark the locations on the wall where the anchors will be inserted, and then drill the mounting holes.

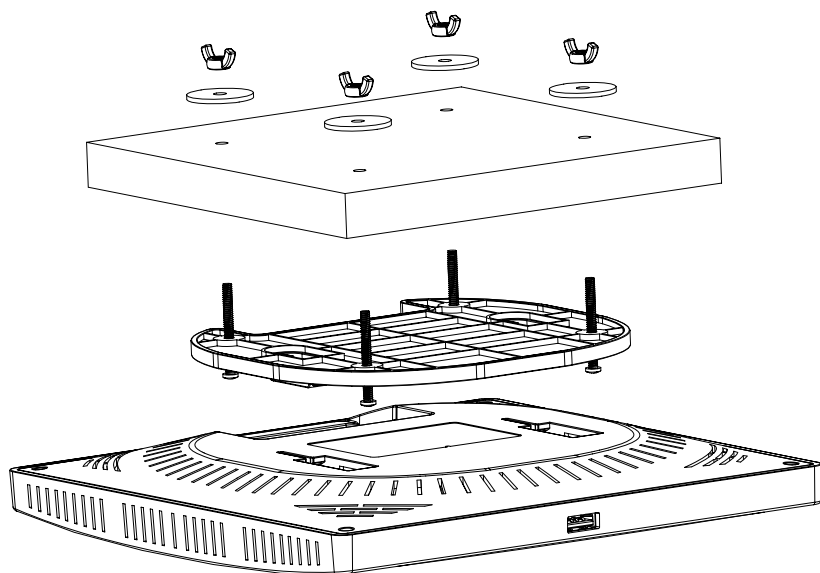
1. Insert the anchors into the mounting holes.
2. Use the screws to attach the mounting bracket to the anchors.
3. Mount the device on the mounting bracket, then slide it to the left until it clicks into place.



## To attach the unit to a ceiling tile

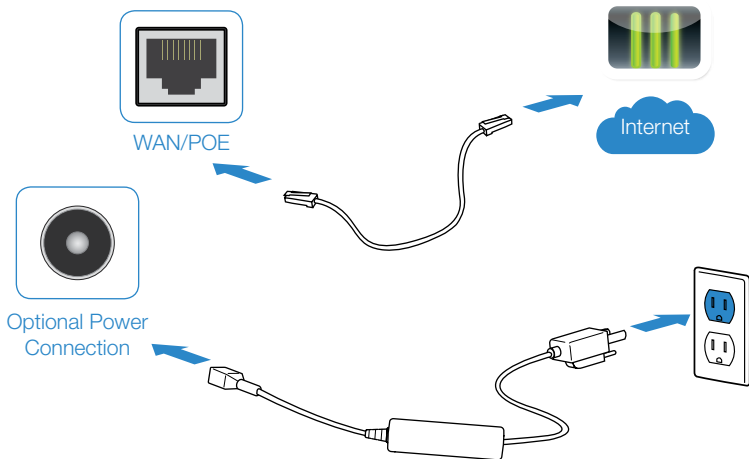
Before you begin: Remove the ceiling tile from its track. Mark the location on the ceiling tile where the screws will be inserted, and then drill the holes.

1. Use the screws, washers, and wing nuts to attach the mounting bracket to the ceiling tile.
2. Mount the device on the mounting bracket, then slide it to the left until it clicks into place.
3. Install the ceiling tile into its track.





## 2 Basic Connections



Connect the FortiAP device to a FortiGate controller or an Internet connection. If you are using Power over Ethernet (PoE), ensure that the cable is connected to an applicable port on your FortiGate device or PoE injector.

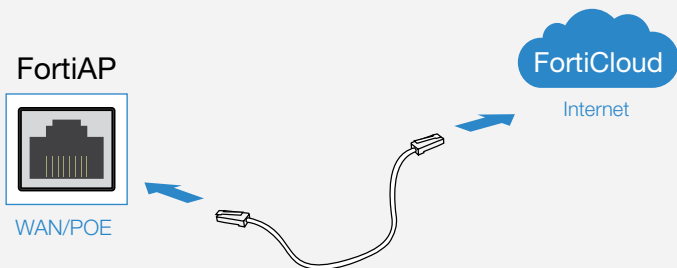
Optionally, connect the device to a power outlet using the optional power adapter.

**Caution:** Adequate grounding must be provided to the FortiAP unit and the PoE injector, in compliance with your local electrical code or regulations.

**Warning:** This device complies with IEEE 802.3af PoE specification. Do not use any PoE injectors that are not IEEE 802.3af compliant as they may damage your device.

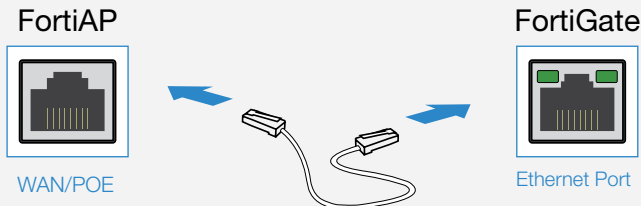
### 3 FortiAP Setup

#### A Cloud provisioning with FortiCloud



OR

#### B FortiGate secured on local network



FortiAP Setup Video

<http://video.fortinet.com/video/92/basic-fortiap-setup>

# A FortiCloud

1. Go to <http://www.forticloud.com> to sign in or create a new account.
2. Select an existing AP Network or create one.  
To create a new network, go to [Add AP Network](#) and enter an [AP Network Name](#) and [AP Password](#).
3. From the left panel, select [Deploy APs](#).

No APs in Inventory:  
[Add AP](#) dialog box appears.

OR

APs in Inventory:  
Click the [+AP](#) button.

4. Enter the unique the [FortiCloud Key](#) located on the FortiAP device, then click [Submit](#).

**Note:** When creating a new network, the AP Password will be applied to all APs in that AP network.

## B Deployment through a FortiGate

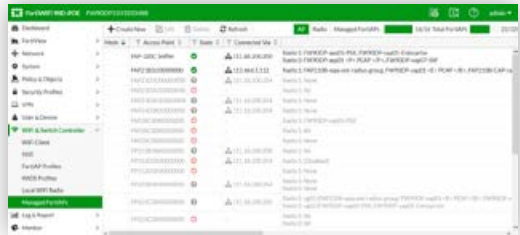
**Note:** Check FortiGate documentation to see whether your FortiAP model can be managed by a FortiGate. If so, use the information in this section to get started. If not, you must use FortiCloud as described in the previous section.

### If FortiGate is on the same network as the FortiAP:

1. Use FortiGate to preauthorize the FortiAP device.
2. Refer to the “Access Point Deployment” section of the Deploying Wireless Networks Guide found at <http://docs.fortinet.com>.
3. Plug FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can use FortiGate to authorize the FortiAP device after you have connected the FortiAP to the network.
2. Within two minutes of connecting the FortiAP to FortiGate, the device appears on the Managed FortiAP page in the Web-based Manager: authorize and assign a profile to the device.



### If FortiGate is not on the same network as the FortiAP:

1. Log into FortiAP directly (IP address: 192.168.1.2) with username **admin** and no password, and specify the IP address of the controlling FortiGate.
2. Connect to FortiAP via the CLI using the instructions in the “Connecting to FortiAP CLI” section of the Deploying Wireless Networks guide.
3. Specify the IP address of the controlling FortiGate:

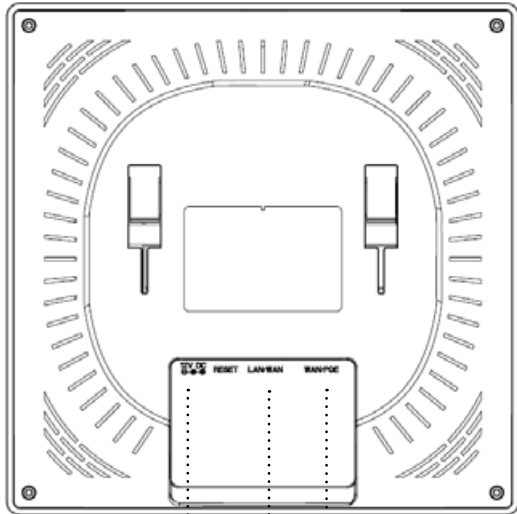
```
config capwap wtp acIpAddr 0.0.0.0
```

where 0.0.0.0 is the address of the FortiGate.

4. The FortiAP device connects to FortiGate, and then you can authorize the FortiAP.

# Device Guide

**USB Type A**  
USB 2.0 port.



**Power**

Optional power  
adapter connection.  
12V DC, 2A

**LAN/WAN**

RJ45 10/100/1000  
Gigabit Ethernet port.

**WAN/PoE**

RJ45 10/100/1000  
Gigabit Ethernet port  
with PoE powered device  
(PD) compliant to both  
IEEE 802.3af (15.4W) and  
802.3at (25.5W).

### Power LED

- Green: 3.3V established, boot-up complete
- ⚙️ Flashing: 3.3V established, booting up
- Off: No power

### Network LED

- Green: WAN connected
- ⚙️ Flashing (2-3 Hz): WAN activity
- ⚙️ Flashing (.5 Hz): No IP address assigned by DHCP server
- Amber: LAN / second WAN connected
- ⚙️ Flashing (2-3 Hz): LAN / second WAN activity
- Off: WAN/LAN disconnected

### Wireless Radio LED

- Green: 2.4G enabled
- ⚙️ Flashing (2-3 Hz): 2.4G WiFi activity
- Amber: 5G enabled
- ⚙️ Flashing (2-3 Hz): 5G WiFi activity
- Off: 2.4G/5G Disabled

### Diagnostic LED Combinations

*Access Controller disconnected*  
Network LED steady on and  
Wireless Radio LED flashing (.5 Hz)

#### *Defect*

Network LED flashing (.5 Hz) and  
Wireless Radio LED flashing (.5 Hz)



### Wireless Radios

Radio 1: 2.4 GHz, 300 Mbps, 802.11 b/g/n  
Radio 2: 5 GHz, 867 Mbps, 802.11a/n/ac

# Cautions and Warnings

## Environmental specifications

Ambient operating temperature: 0–40°C.

*Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).*

*Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).*

## Safety

**Caution:** This equipment is to be used in a Network Environment 0 per IECTR 62101. This product is connected only to PoE networks without routing to the outside plant.

**Attention:** Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12 Vdc, 2 A or by 48 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 2 A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 48 Vdc (PoE).

## Regulatory Notices

### Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING:** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Caution:** Operation of this device is restricted to indoor use only.

For operation within 5.15-5.25 GHz frequency range, it is restricted to indoor environment. The band from 5600-5650 MHz will be disabled by the software during the manufacturing and cannot be changed by the end user.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

## **Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## **Innovation, Science and Economic Development (ISED) – Canada**

This device complies with ISED license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit.

Le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.

The worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.

Les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, et énoncée à la section 6.2.2(3), doivent être clairement indiqués.

**Caution:** The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.



**Attention:** Le dispositif de la bande 5150-5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite co-canal. Les radars à haute puissance sont désignés comme utilisateurs principaux (à savoir les utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou endommager les périphériques LE-LAN.

This device has been designed to operate with an antenna having a maximum gain of 4.3 dBi for 2.4 GHz and 4.64 for 5 GHz. Antenna having a higher gain is strictly prohibited per regulations of ISED. The required antenna impedance is 50 ohms.

Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotopically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de 4.3 dBi pour 2.4 GHz et 4.64 dBi pour 5 GHz. Une antenne ayant un gain supérieur sont strictement interdites par la réglementation d'ISED. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'ISED, cet émetteur radio peut fonctionner seulement avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par ISED. Dans le but de réduire les risques de brouillage radioélectrique aux autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication réussie.

This radio transmitter IC: 7280B-24100012 has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio IC: 7280B-24100012 a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne(s) ne doit pas être co-localisés ou fonctionnement en association avec une autre antenne ou transmetteur.

Ant.	Brand Holder	Model Name	Antenna Type	Connector	Gain (dBi)	
					2.4 GHz	5 GHz
Internal Antennas						
1	PSA	RFPCA380617NNAB301	PCB	--	3	
2	PSA	RFPCA380620NNAB301	PCB	--	4.16	
3	PSA	RFPCA161006NN5B301	PCB	--		3.38
4	PSA	RFPCA161013NN5B301	PCB	--		3.08
External Antennas						
1	RFLink	RF21S000881A	Dipole	R-SMA	4.3	
2	RFLink	RF21S000881A	Dipole	R-SMA	4.3	
3	RFLink	RF21S000881A	Dipole	R-SMA		4.64
4	RFLink	RF21S000881A	Dipole	R-SMA		4.64

## Professional Installation Instruction

### 1. Installation personnel

This product is designed for specific application and needs to be installed by qualified personnel who has RF and related rule knowledge. The general user shall not attempt to install or change the settings.

### 2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 20cm from nearby person in normal operation condition to meet Regulatory RF exposure requirement. The installation applies to both indoor and outdoor location.

### 3. External antenna(s)

Use only the antenna(s) that have been approved by the manufacturer. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power that may lead to the violation of FCC/ISED limit and is prohibited.

### 4. Warning

Please carefully select the installation position and ensure that the final output power does not exceed the limit set forth in relevant rules. The violation of the rule could lead to serious federal penalty.

## Instructions d'installation professionnelle

### 1. Installation

Ce produit est conçu pour un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et règle similaires. L'utilisateur ne doit pas tenter d'installer ou de modifier les paramètres.

### 2. Emplacement d'installation

En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 20cm entre l'antenne émettrice et. L'installation s'applique aux emplacements intérieur et extérieur.

### 3. Antenne externe(s)

Utiliser uniquement l'antenne(s) approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/ISED, ce qui est interdit.

### 4. Avertissement

Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de sérieuses pénalités fédérales.

## European Conformity (CE) – EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



The product transmits within the frequency ranges and less than or equal to the power listed below:

2412-2472 MHz less than 20 dBm

5180-5240 MHz less than 20 dBm

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such

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  - b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
  - c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
  - d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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